Egg Car Project: Flexible Pacing Guide

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| Day 1:   1. Engineering ppt. (introduces criteria, constraints, and design process.) 2. Project Intro (criteria and constraints) 3. Data review and safety (Consumer Reports) article. 4. Start brainstorming in groups (if time) | Day 2:   1. Initial Design Brainstorm with group.    1. Materials    2. Diagrams    3. Reflection 2. Start building (if time) | Day 3:   1. Build | Day 4:   1. Build | Day 5:   1. By end of class, all groups should have completed at least one speed test and one safety test. |
| Day 6:   1. Optimize design and re-test (speed and safety) | Day 7:   1. Continue optimizing the design and re-testing (speed and safety) | Day 8:   1. Continue optimizing the design and re-testing (speed and safety) 2. By this day, all groups should have completed at least three speed and safety tests with reflections. | Day 9:  Final competition!! | Day 10:  Final Assessment ☹ |

Materials Provided by Teacher

* Test ramp (teacher determines material and dimensions)
* Raw egg (approximately 4 eggs per group)
* Plastic egg (reusable class set to use as a model during design process)
* Snack size Zip lock bag (approximately 4 per group)
* Wheels (4 per group)
* Straws (approximately 6 per group)